(i)	SEQUI	ENCE CI	IAF	RACTE	ERI	STI	CS:	
	(A)	LENGT	1:	324	ba	se	pairs	٤
	(B)	TYPE:	nυ	ıclei	C	aci	.d	
	100	CONTRACT			•	3 4	1.	

(C) STRANDEDNESS: both

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

(A) NAME/KEY: CDS
(B) LOCATION: 1..324

(ix) FEATURE:

(A) NAME/KEY: mat\_peptide (B) LOCATION: 31..324

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

GACATTCAGC	TGACCCAGTC	TCCANNNNN	NNNNNNNNN	NNNNNNNNN	NNNNNNNNN	60
NNNNNNNNN	NNNNNNNNN	NNNNNNNNN	NNNNNNNNN	NNNNNNNN	NNNNNNNNN	120
NNNNNNNN	NNCAGCCCTT	GATTTATGAG	GTTTCCAACC	GGGCCTCTGG	AGTCCCAGAC	180
AGGTTCAGTG	GCAGTGGGTC	GGACACTGAT	TTCACACTCA	AAATCAGCAG	AGTGGAGGCT	240
GAGGATGTTG	GGGTTTATTA	CTGCATGCAA	TATACACACA	TTCCATTCAC	TTTCGGCCCC	300
GGGACCAAAC	TGGATATCAA	ACGA				324



- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 108 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

Asp Ile Gln Leu Thr Gln Ser Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa I 10 15

Tyr Glu Val Ser Asn Arg Ala Ser Gly Val Pro Asp Arg Phe Ser Gly 50 55 60

Ser Gly Ser Asp Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala 65 70 75 80

Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Tyr Thr His Ile Pro Phe 85 90 95

Thr Phe Gly Pro Gly Thr Lys Leu Asp Ile Lys Arg 100 105

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# (2) INFORMATION FOR SEQ ID NO:29: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: both (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (ix) FEATURE:
  - (A) NAME/KEY: CDS
    (B) LOCATION: 1..324

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

ATT Ile								48
AGA Arg								96
AAT Asn								144
GAG Glu 50								192
GGG Gly								240
GAT Asp								288
TTC Phe								324

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 108 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:
- Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
  1 5 10 15
- Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Asn Tyr 20 25 30
- Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Gln Pro Leu Ile 35 40 45
- Tyr Glu Val Ser Asn Arg Ala Ser Gly Val Pro Asp Arg Phe Ser Gly 50 55 60
- Ser Gly Ser Asp Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala 65 70 75 80
- Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Tyr Thr His Ile Pro Phe 85 90 95
- Thr Phe Gly Pro Gly Thr Lys Leu Asp Ile Lys Arg 100 105

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(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 324 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: both

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION: 1...324

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31

									TCT Ser			48
									GGC Gly			96
									CCT Pro			144
									TCA Ser 60			192
									AGC Ser			240
									AAC Asn			288
	G1y	Gly	$\operatorname{Gly}$	$\mathtt{Thr}$	AAG Lys	Val	Glu					324

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 108 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:32
- Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
  1 5 10 15
- Asp Thr Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Asn Asn 20 25 30
- Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile 35 40 45
- Tyr Ala Ala Ser Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly 50 55 60
- Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro 65 70 75 80
- Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Asp Asn Ser Tyr Pro Phe 85 90 95
- Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg 100 105

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	(1.	( ) ( ) ( )	A) LI 3) T C) S	ENGTI YPE : FRANI	H: 3: nuc. DEDN	24 baleic ESS: line	ase pacion both	pair: i	5							
	(ii)	) MOI	LECUI	LE T	YPE:	CDN	A									
	(iii)	) HYI	POTH	ETIC	AL: 1	NO										
	(iv)	) AN	ri-si	ENSE	: NO											
	(ix)	(1		AME/I		CDS										
	(xi)	) SE(	QUEN	CE DI	ESCR:	IPTI	ON: S	SEQ :	ID NO	33:33						
	ATT Ile															
GAC Asp	ACA Thr	GTC Val	ACC Thr 20	ATC Ile	ACT Thr	TGT Cys	CGG Arg	GCA Ala 25	AGT Ser	CAG Gln	GGC Gly	ATT Ile	AGC Ser 30	AAT Asn	AAT Asn	
	GCC Ala															1
	GCT Ala 50															1
	GGA Gly															2

GAA GAT TIT GCA ACT TAT TAC TGT CAA CAG GAT AAC AGT TAT CCT TIC

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Asp Asn Ser Tyr Pro Phe

ACT TTC GGC GGA GGG ACC AAG GTG GAG ATC AAA CGA

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg



- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 108 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:34
- Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
  1 5 10 15
- Asp Thr Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Asn Asn 20 25 30
- Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile 35 40 45
- Tyr Ala Ala Ser Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly 50 55 60
- Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro 65 70 75 80
- Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Asp Asn Ser Tyr Pro Phe 85 90 95
- Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg 100 105

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# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA

#### (ix) FEATURE:

- (A) NAME/KEY: CDS
- (B) LOCATION: 1...342

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

		GTG Val							48
		GTC Val							9(
		AAG Lys 35							144
		AAA Lys							193
		CGC Arg							240
		AGT Ser							288
		AGC Ser							336
AAA Lys	CGG Arg								342



(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

Asp I le Val Met Thr Gln Ser Pro Thr Phe Leu Ala Val Thr Ala Ser 1 10 15

Lys Lys Val Thr Ile Ser Cys Thr Ala Ser Glu Ser Leu Tyr Ser Ser 20 25 30

Lys His Lys Val His Tyr Leu Ala Trp Tyr Gln Lys Lys Pro Glu Gln
35 40 45

Ser Pro Lys Leu Leu Ile Tyr Gly Ala Ser Asn Arg Tyr Ile Gly Val 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr 65 70 75 80

Ile Ser Ser Val Gln Val Glu Asp Leu Thr His Tyr Tyr Cys Ala Gln 85 90 95

Phe Tyr Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu 100 105 110

Lys Arg

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	(i	(1 (1 (0	QUENCA) LI B) T C) SI D) TO	ENGTI YPE: I'RANI	H: 3: nuc. DEDNI	27 ba leic ESS:	ase j acio botl	pair: d	S						
	(ii	) MO	LECU	LE T	YPE:	cDN	A								
	(iii	) HY	POTH	ETIC	AL: 1	NO									
	(iv	) AN	ri-si	ENSE	: NO										,
/	(ix	(2	ATURI A) NA B) LA	AME/I			327								
	(xi	) SE	QUEN	CE DI	ESCR:	IPTI	ON: S	SEQ :	ID NO	D:37					
	CTC Leu														48
	ACA Thr														96
	GCC Ala														144
	GGT Gly 50														192
	AGA Arg														240
	GAT Asp		Ala	Thr	Tyr		Cys	Leu	$\operatorname{Gly}$	Ser	Ser	Ser	Ser	Asp	288

327

ACT GCT TTC GGC GGA GGG ACC GAG CTG GAG ATC CTA TGT

Thr Ala Phe Gly Gly Gly Thr Glu Leu Glu Ile Leu Cys

105

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- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 109 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

Ala Leu Val Met Thr Gln Thr Pro Ala Ser Val Ser Ala Ala Val Gly
1 10 15

Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Glu Asn Ile Tyr Ser Ser 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile 35 40 45

Tyr Gly Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Lys Gly
50 55 60

Ser Arg Ser Gly Thr Glu Tyr Thr Leu Thr Ile Ser Gly Val Gln Arg 65 70 . 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Ser Asp Ser Ser Ser Asp 85 90 95

Thr Ala Phe Gly Gly Gly Thr Glu Leu Glu Ile Leu Cys 100 105

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INFORMATION FOR SEQ ID NO:39: SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: both (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (iii) HYPOTHETICAL: NO (iv) ANTI-SENŠE: NO (ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: \1...321 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39: ACT GTG GCT GCA CCA TCT GTC TYC ATC TTC CCG CCA TCT GAT GAG CAG 48 Thr Val Ala Ala Pro Ser Val Phè Ile Phe Pro Pro Ser Asp Glu Gln 10 TIG AAA TCT GGA ACT GCC TCT GTT GTG TGC CTG CTG AAT AAC TTC TAT Leu Lys Ser Gly Thr Ala Ser Val Val\Cys Leu Leu Asn Asn Phe Tyr 20 CCC AGA GAG GCC AAA GTA CAG TGG AAG GTG, GAT AAC GCC CTC CAA TCG Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser 40 GGT AAC TCC CAG GAG AGT GTC ACA GAG CAG GAC\AGC AAG GAC AGC ACC Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr 50 55 TAC AGC CTC AGC AGC CTG AGG CTG AGC AAA GCA GAC TAC GAG AAA Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys

96 144 192 240 65 70 80 CAC AAA GTC TAC GCC TGC GAA GTC ACC CAT CAG GGC CTG AGC TCG CCC 288 His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro 90 GTC ACA AAG AGC TTC AAC AGG GGA GAG TGT TA 321 Val Thr Lys Ser Phe Asn Arg Gly Glu Cys 100 105

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# (2) INFORMATION FOR SEQ ID NO:39:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

# (ii) MOLECULE TYPE: cDNA

# (iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

## (ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION: 1..321

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

		CCA Pro 5						48	
		ACT Thr						96	
		AAA Lys						144	
		GAG Glu						192	
		AGC Ser						240	
		GCC Ala 85						288	
		TTC Phe			TAG			32	1



- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 106 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln 1 5 10 15

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr 20 25 30

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser 35 40 45

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr 50 55 60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys 65 70 75 80

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro 85 90 95

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys 100 105 50 2

(2) INFORMATION FOR SEQ ID NO:40:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 106 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
1 5 10 15

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
20 25 30

⊅ro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser 35 40 45

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr 50 55 60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys 65 70 75 80

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro 85 90 95

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys 100 105



GTC ACC AAG AGC TTC AAC AGG GGA GAG TGT TAG

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys

CAC AAT GTC TAT GCC TGC GAA GTC ACC CAT CAG GGC CTG AGC TCG CCC

His Asn Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro

# (2) I

(2)	INFO	ORMA!	rion	FOR	SEQ	ID 1	NO:4	l:							
	(i)	(1 (1 (0	QUEN( A) Li 3) T C) S O) T	engti YPE : I'RANI	nuc. DEDNI	21 ba leic ESS:	ase p acid both	pairs 1	6						
	(ii	) MOI	LECUI	LE T	YPE:	CDN	A								
	(iii)	HYI	POTH!	ETIC	AL: X	YES						•		PE)	
	(iv	AN	ri-si	ENSE	: NO									_	
	(ix)	(2	ATURI A) NA B) LA	ME\I			321								
	(xi)	) SE(	QUEN	CE DI	ESCR:	IPTIC	ON: S	SEQ :	ID NO	0:41	:				
	GTG Val														48
	AAA Lys														96
	AGA Arg														144
	AAC Asn 50														192
	AGC Ser														240

(2) INFORMATION FOR SEQ ID NO:41: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: both (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (iii) HYPOTHETICAL: YES (iv) ANTI\SENSE: NO (ix) FEATURE \ (A) NAME/KEY: CDS (B) LOCATION: 1...321 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41: GCT GTG GCT GCA CCA TCT GTC TTC ATC TTC CCG CCA TCT GAG GAT CAG 48 Ala Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Glu Asp Gln 10 GTG AAA TCT GGA ACT GTC TCT GTT GTG TGC CTG CTG AAT AAC TTC TAT 96 Val Lys Ser Gly Thr Val Ser Val Val Cys Leu Leu Asn Asn Phe Tyr 20 CCC AGA GAG GCC AGC GTA AAG TGG AAG GTG GAT GCT GCC CTC AAA ACG 144 Pro Arg Glu Ala Ser Val Lys Trp Lys Val Asp Gly Ala Leu Lys Thr GAT AAC TCC CAG GAG AGT GTC ACA GAG CAG, GAC AGC AAG GAC AAC ACC 192 Asp Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Asn Thr 50 55 60 TAC AGC CTG AGC AGC ACC CTG ACG CTG AGC AGC ACC TAC CAG AGT 240 Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Ser Thr Asp Tyr Gln Ser 65 70 CAC AAT GTC TAT GCC TGC GAA GTC ACC CAT CAG GGC CTG AGC TCG CCC 288 His Asn Val Tyr Ala Cys Glu Val Thr His Gln Gly Leù Ser Ser Pro

105

321

GTC ACC AAG AGC TTC AAC AGG GGA GAG TGT TA

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys



- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 106 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

Ala Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Glu Asp Gln
1 5 10 15

Val Lys Ser Gly Thr Val Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
20 25 30

Pro Arg Glu Ala Ser Val Lys Trp Lys Val Asp Gly Ala Leu Lys Thr 35 40 45

Asp Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Asn Thr 50 55 60

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Ser Thr Asp Tyr Gln Ser 65 70 75 80

His Asn Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro 85 90 95

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100
105

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- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

#### (ix) FEATURE:

- (A) NAME/KEY: CDS
- (B) LOCATION: 1..321

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

CCA Pro								48
ACA Thr								96
AAT Asn								144
GGC Gly 50								192
AAC Asn								240
AGC Ser								288
GTC Val					TAG			321

(2) INFORMATION FOR SEQ ID NO:43: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: both (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (iii) HYPOTHETICAL: NO (iv) ANTY-SENSE: NO (ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 1..321

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

											CCA Pro					48
CTG Leu	ACA Thr	ACT Thr	GAA Glu 20	ACA Thr	GTC Val	ACC Thr	ATC    le	GTG Val 25	TGC Cys	GTG Val	GCA Ala	.AAT .Asn	AAA Lys 30	TTC Phe	CGT Arg	96
											GAC Asp					144
											CCC P.ro 60					192
											GCA Ala					240
											AAC ASn					288
	GTC Val									TA						321

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 106 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:

Asp Pro Ile Ala Pro Thr Val Leu Leu Phe Pro Pro Ser Ala Asp Gln
1 5 10 15

Leu Thr Thr Glu Thr Val Thr Ile Val Cys Val Ala Asn Lys Phe Arg
20 25 30

Pro Asn Asp Ile Thr Val Thr Trp Lys Val Asp Asp Glu Ile Gln Gln 35 40 45

Ser Gly Phe Glu Asn Ser Thr Thr Pro Gln Ser Pro Glu Asp Cys Thr 50 55 60

Tyr Asn Leu Ser Ser Thr Leu Ser Leu Thr Lys Ala Gln Tyr Asn Ser 65 70 75 80

His Ser Val Tyr Thr Cys Glu Val Val His His Asn Ser Gly Ser Ala 85 90 95

Ile Val Gln Ser Phe Asn Arg Gly Asp Cys
100 105

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•	\																
	(2)	INF	ORMA!	rion	FOR	SEQ	ID 1	NO: 45	5:								
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 321 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: both  (D) TOPOLOGY: linear																	
(		(ii	) мдр	LECUI	LE T	YPE:	CDN	A									
		(iii	) HYI	э <b>У</b> СНІ	ETIC	AL: 1	NO.										
Ψ		(iv	) AN	rı-sı	ENSE	: NO											
Due	)	(ix		A) N	E: AME/I OCATI			321									
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:																	
•		GAT Asp															48
		ACA Thr															96
	CCC Pro	AAA Lys	GAC Asp 35	ATC Ile	AAT Asn	GTC Val	AAG Lys	TGG Trp 40	AAG Lys	ATT	GAT Asp	GGC Gly	AGT Ser 45	GAA Glu	CGA Arg	CAA Gln	144
		GGC Gly 50															192
		AGC Ser															240
		AAC Asn												``			288

321

ATT GTC AAG AGC TTC AAC AGG AAT GAG TGT TA
Ile Val Lys Ser Phe Asn Arg Asn Glu Cys
100 105

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 321 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: both
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (ix) FEATURE:
  - (A) NAME/KEY: CDS
  - (B) LOCATION: 1..321
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

	GCA Ala								48
	GGA Gly 20								96
	ATC Ile							CAA Gln	144
	CTG Leu								192
	AGC Ser								240
	TAT Tyr								288
	AGC Ser				TAG				321